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Local monomialization of a system of first integrals of Darboux type

Given a real- or complex-analytic singular foliation \mathcal{F} with n first integrals of Darboux type (f_1, \dots, f_n) , we prove that there exists a local monomialization of the first integrals. In particular, if \mathcal{F} is generated by the n first integrals, the foliation \mathcal{F} is reduced to monomial singularities.